MR-1 CHECK OFF LIST FOR NON-CATEGORICAL COMPANIES

SAINT MARY'S (Boulevard) **#26210045**

1. **Month of JULY 1, 2008 THRU JULY 31, 2008**

2.	Is Outlet # (8 digit) Correct?	Y	N	N/A
3.	Is average Total flow-gal.day stated in space provided?	Y	N	N/A
4.	Is max. Total flow-gal day stated in space provided?	Y	N	N/A
5.	Is method used to calculate water stated?	Y	N	N/A
6.	Are number of working days stated?	Y	N	N/A
7.	Are there any parameters which have exceeded PVSC Local Limits?	Y	N	N/A
8.	Is proper compliance/non-compliance statement provided?	Y	N	N/A
9.	Have correct number of samples been submitted?	Y	N	N/A
10.	Has PHC result been listed on MR-1 report?	Y	N	N/A
11.	Has sample number been reported in space provided?	Y	N	N/A
12.	Have all regulated parameters been listed on MR-1?	Y	N	N/A
13.	Has sample type been stated on MR-1?	Y	N	N/A
14.	Have all samples been taken during this reporting period?	Y	N	N/A
15.	Has NJDEPE certified lab been used?	Y	N	N/A
16.	Have analytical results been submitted on copies of Laboratory stationery?	Y	N	N/A
17.	Have results been written in space designated on MR-1?	Y	N	N/A
18.	Is correct method used to preserve samples stated on MR-1?	Y	N	N/A
19.	Has MR-1 been signed by authorized representative?	Y	N	N/A
20.	Has information been submitted on proper MR-1 form?	Y	N	N/A
21.	Remove Arsenic from report if sampling not required	Y	N	N/A

AUG 2008
2nd Input
Industrial Dept.

MR-1 CHECK OFF LIST FOR NON-CATEGORICAL COMPANIES

First Reviewer: comments on deficiencies Complete

Date Reviewed 8/28/08 Date sent to user _____

Date due back _____ Reviewer J. Sullivan

Second review comments on deficiencies _____

Date Reviewed _____ Date sent to user _____

Date due back _____ Reviewer _____

Date _____ Reviewer _____

50e

RECEIVED
AUG 21 2008

PRETREATMENT MONITORING REPORT

NAME : ST. MARY'S HOSPITAL

MAILING ADDRESS: 350 Boulevard, Passaic, NJ 07055

FACILITY LOCATION: 350 Boulevard, Passaic, NJ 07055

CATEGORY & SUBPART: 460

OUTLET #: 1

CONTACT OFFICIAL: Mr. Martin Romanik

TELEPHONE #: (973) 365-5134

NEW CUSTOMER ID/ OUTLET ID: 26210045

OLD OUTLET DESIGNATION: 26210003

MONITORING RECORD					
START			END		
7	1	2008	7	31	2008
MO.	DAY	YR.	MO.	DAY	YR.

	Average	Maximum
Regulated Flow-gal/day	N/A	N/A
Total Flow-gal/day	209,581	230,539

Method Used: Meter Readings Divided by 31 days.

Production Rate (if applicable)

PARAMETER		MASS LIMIT OR CONCENTRATION			#OF SAMPLES	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS		COMP/GRAB
Zinc	Sample Measurement	0.088	0.088	ppm	1	COMP
	Permit Requirement	*1.67*	*1.67*	ppm		
	Sample Measurement					
	Permit Requirement					
	Sample Measurement					
	Permit Requirement					

914.300 * X
7.488 =
6.838.964 * X
6.838.964 * -
30.581 =
6.497.016 * -
6.497.016 * -
31 * =
209.552 * X
209.552 * X
1 * 1 =
230.541 * X
0 * X
000

JUL 2008 1st Input Industrial Dept.

AUG 2008 2nd Input Industrial Dept.

PVSC Form MR-1 Rev:4 6/87 P1

Certification of Non-use if applicable (use additional sheets): N/A

Compliance or non-compliance statement with compliance schedule (use additional sheets if necessary for every parameter used. PBI Regional Medical Center Hospital is in compliance with the PVSC local limits

Explain Method for preserving samples: Laboratory preserved with 5ml nitric acid to a pH of <2

I certify under penalty of law that this document and attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Signature of Principal
Executive or Authorized Agent

Joseph W. Pilewski

Vice President, Enviro-Sciences (OF DELAWARE), Inc
Type Name and Title

19-Aug-08
Date

PVSC Form MR-1 Rev:5 3/91 P2

Water Discharge Calculation Sheet

ST. MARY'S HOSPITAL (PBI)

JULY 2008

Total water used from meter reading (Cubic feet)	914,300
x 7.48 (gallons / cubic foot)	
Total Usage (Gallons)	6,838,964
Evaporation (Gallons) 5% evaporation *	341,948
Volume Discharged (Gallons)	6,497,016

Volume Discharged For Month	
Daily Average Discharge (Gallons)	209,581
Daily Maximum Discharge (Gallons)	230,539

Month 7
Last day 31

*** NOTE: In the months of January, February and March the PVSC DOES NOT ALLOW a reduction for evaporation.**

70027224	70027225	70029946	60144298			
Meter 1	**Meter 2**	**Meter 3**	**Meter 4**	**Total**	**x 100**	**x 7.48**
2,418	4,511	2,014	200	9,143	914,300	6,838,964

	Reading Date		CF1	CF2	Consumption (100 cu.ft.)
Meter 1	8/11/08		5,162.00	1,560.00	
	7/11/08		3,844.00	1,549.00	
		C - L	1,318.00	11.00	
			x 1	**x 100**	
			1,318.00	1,100.00	**2,418.00**
Meter 2	8/11/08		11,142.00	1,233.00	
	7/11/08		9,731.00	1,202.00	
		C - L	1,411.00	31.00	
			x 1	**x 100**	
			1,411.00	3,100.00	**4,511.00**
Meter 3	8/11/08		2,875.00	7,551.00	
	7/11/08		1,791.00	7,458.00	
		C - L	1,084.00	93.00	
			x 1	**x 10**	
			1,084.00	930.00	**2,014.00**
Meter 4	8/11/08		2,298.00		
	7/11/08		2,278.00		
		C - L	20.00		
			x 10		
			200.00		**200.00**

IAL
Integrated Analytical Laboratories LLC

ANALYTICAL DATA REPORT

ESI, INC.
111 Howard Blvd
Suite 108
Mount Arlington, NJ 07856

Project Name: **ST. MARY'S HOSPITAL (PBI)-R8MM**
IAL Case Number: **E08-07622**

These data have been reviewed and accepted by:

Michael H. Leffin, Ph.D.
Laboratory Director

273 Franklin Road
Randolph, NJ 07869
Phone: 973 361 4252
Fax: 973 989 5288

Sample Summary

IAL Case No.

E08-07622

Client ESI, INC.

Project ST. MARY'S HOSPITAL (PBI)-R8MM

Received On 7/ 3/2008@14:30

Lab ID	*Client Sample ID*	*Depth Top/Bottom*	*Sampling Time*	*Matrix*	*# of Container*
07622-001	SMP-0708	n/a	7/ 2/2008@09:45	Aqueous	1

Integrated Analytical Labs ~ 273 Franklin Road, Randolph, NJ 07869 ~ (973) 361-4252 ~ Fax (973) 989-5288

INTEGRATED ANALYTICAL LABORATORIES, LLC.

TABLE OF CONTENTS

* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.

MATRIX QUALIFIERS

A - Indicates the sample is an Aqueous matrix.

O - Indicates the sample is an Oil matrix.

S - Indicates the sample is a Soil, Sludge or Sediment matrix.

X - Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

DATA QUALIFIERS

B - Indicates the analyte was found in the Blank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.

C - Common Laboratory Contaminant.

D - The compound was reported from the Diluted analysis.

D.F. - Dilution Factor.

E - Estimated concentration, reported results are outside the calibrated range of the instrument.

J - Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.

MDL - Method Detection Limit.

MI - Indicates compound concentration could not be determined due to Matrix Interferences.

NA - Not Applicable.

ND - Indicates the compound was analyzed for but Not Detected at the MDL.

REPORT QUALIFIERS

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

Q - Qualifier

INTEGRATED ANALYTICAL LABORATORIES, LLC.

CONFORMANCE / NONCONFORMANCE SUMMARY

Integrated Analytical Laboratories, LLC. received one (1) aqueous sample(s) from ESI, INC. (Project: ST. MARY'S HOSPITAL (PBI)-R8MM) on July 3, 2008 for the analysis of:

(1) Metal - Zinc

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

R Shadis
Reviewed by

07/10/08
Date

INTEGRATED ANALYTICAL LABORATORIES, LLC.

LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E08-07622

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.	✓
2.	Table of Contents.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	✓
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	✓
5.	Document bound, paginated and legible.	✓
6.	Chain of Custody.	✓
7.	Methodology Summary.	✓
8.	Laboratory Chronicle and Holding Time Check.	✓
9.	Results submitted on a dry weight basis (if applicable).	✓
10.	Method Detection Limits.	✓
11.	Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	✓
12.	NonConformance Summary.	✓

R Shadis
QC Reviewed by

07/18/08
Date

INTEGRATED ANALYTICAL LABORATORIES
CONFORMANCE/NONCONFORMANCE SUMMARY
METAL ANALYSIS

Lab Case Number: E08-07622

		No	Yes
1.	Calibration Summary Meet Criteria.		✓
2.	ICP Interference Check Sample Results Meets Criteria (if applicable)		NA
3.	Serial Dilution/Post Spike Summary Submitted (if applicable) / Meets Criteria		✓
4.	Internal Standards Meet Criteria (if applicable)		✓
5.	Laboratory Control Sample Summary Submitted (if applicable) / Meets Criteria		✓
6.	Blank Contamination: If yes, list compounds and concentrations in each blank:	✓	
7.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. (If not, list those compounds and their recoveries which fall outside the acceptable range).		✓
8.	Extraction Holding Time Met. If not, list number of days exceeded for each sample:		✓
9.	Analysis Holding Time Met. If not, list number of days exceeded for each sample:		✓

Additional Comments:
Sample(s) used for aqueous metals analyses contained varying levels of sediment. Precautions were taken to use an aqueous representative of the sample. However, our experience has demonstrated that samples of this nature are very difficult to duplicate because the metals numbers are basically tied into the level of sediment present in the original sample. Additionally, as the remainder of the sample is stored under acidic conditions, some of the metals may continue to leach out into the water making any reproduction of the original number impossible. The rough amount of sediment present in the samples is as follows:

07622-001: Trace

H. Falk-Pedersen
Inorganic Manager

July 16, 2008
Date

0004

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: ESI, INC.
Project: ST. MARY'S HOSPITAL (PBI)-R8MM
Lab Case No.: E08-07622

	Lab ID:	**07622-001**	
	Client ID:	**SMP-0708**	
	Matrix:	**Aqueous**	
	Sampled Date	**7/2/08**	
PARAMETER(Units)	Conc	Q	MDL
Metals (Units)	*(mg/L-ppm)*		
Zinc	0.088		0.008

INTEGRATED ANALYTICAL LABORATORIES, LLC.

Zinc

Client/Project: ESI/ST. MARY'S HOSPITAL (PBI)-R8MM

Batch #: 309
Date Received: 07/03/08 14:30
Method: 200.8

Lab ID	Client ID	Result	Q	DF	Matrix	MDL	% Moist	Date Analyzed
07622-001	SMP-0708	0.088		1	Aqueous-mg/L	0.008	100	07/10/08

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

BLANK 1 RESULTS SUMMARY

Batch (Page) #: 309

Associated Lab Case for Blank 1: 07486, 07494, 07501, 07547, 07557, 07560, 07619, 07621, 07622, 07624, 07483, 07492, 07497, 07498, 07499, 07552, 07591, 07850

Matrix: Aqueous Unit: ppb (µg/L) Method: 200.8/200.7

ANALYTE	SAMPLE MDL	REAGENT BLANK
Arsenic	2.00	ND
Cadmium	1.00	ND
Calcium	200	ND
Chromium	8.00	ND
Copper	8.00	ND
Iron	100	ND
Lead	2.00	ND
Magnesium	200	ND
Manganese	4.00	ND
Mercury	0.500	ND
Nickel	4.00	ND
Zinc	8.00	ND

Associated Sample for Blank 1:

07486-006; 07494-001; 07501-001; 07547-001
07557-001; 07560-001; 07619-002; 07621-001
07622-001; 07624-001; 07483-001; 07492-001~003
07497-002; 07498-002; 07499-001; 07552-001
07591-001; 07850-001

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

INITIAL & CONTINUING CALIBRATION BLANKS VERIFICATION

Batch (Page) #: 309

Lab Case: 07483, 07486, 07492, 07494, 07497, 07498, 07499, 07500, 07501, 07502, 07503, 07504
07505, 07526, 07547, 07552, 07557, 07560, 07568, 07591, 07598, 07599, 07600, 07601
07619, 07620, 07621, 07622, 07623, 07624, 07625, 07686, 07695, 07850

Matrix: Aqueous Method: 200.8/200.7 Concentration/Units: ppb (µg/L)

ANALYTE	INST. MDL	ICB	CCB	CCB	CCB	CCB	CCB
Arsenic	0.500	ND	ND	ND	ND	ND	ND
Cadmium	0.250	ND	ND	ND	ND	ND	ND
Calcium	100	ND	ND				
Chromium	2.00	ND	ND	ND	ND	ND	ND
Copper	2.00	ND	ND	ND	ND	ND	ND
Iron	50.0	ND	ND				
Lead	0.500	ND	ND	ND	ND	ND	ND
Magnesium	100	ND	ND				
Manganese	1.00	ND	ND	ND	ND	ND	ND
Mercury	0.250	ND	ND	ND			
Nickel	1.00	ND	ND	ND	ND	ND	ND
Zinc	2.00	ND	ND	ND	ND	ND	ND

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

INITIAL & CONTINUING CALIBRATION BLANKS VERIFICATION

Batch (Page) #: 309

Lab Case: 07483, 07486, 07492, 07494, 07497, 07498, 07499, 07500, 07501, 07502, 07503, 07504
07505, 07526, 07547, 07552, 07557, 07560, 07568, 07591, 07598, 07599, 07600, 07601
07619, 07620, 07621, 07622, 07623, 07624, 07625, 07686, 07695, 07850

Matrix: Aqueous Method: 200.8/200.7 Concentration/Units: ppb (µg/L)

ANALYTE	INST. MDL	CCB	CCB	CCB	CCB		
Arsenic	0.500	ND	ND	ND	ND		
Cadmium	0.250	ND	ND	ND	ND		
Chromium	2.00	ND	ND	ND	ND		
Copper	2.00	ND	ND	ND	ND		
Lead	0.500	ND	ND	ND	ND		
Manganese	1.00	ND	ND	ND	ND		
Nickel	1.00	ND	ND	ND	ND		
Zinc	2.00	ND	ND	ND	ND		

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

INITIAL & CONTINUING CALIBRATION VERIFICATION

Batch (Page) #: 309

Lab Case: 07483, 07486, 07492, 07494, 07497, 07498, 07499, 07500, 07501, 07502, 07503, 07504
07505, 07526, 07547, 07552, 07557, 07560, 07568, 07591, 07598, 07599, 07600, 07601
07619, 07620, 07621, 07622, 07623, 07624, 07625, 07686, 07695, 07850

Matrix: Aqueous Method: 200.8/200.7 Units: ppb (ug/L)

ANALYTE	INST. MDL	ICV & CCV TRUE	ICV		CCV		CCV		CCV	
			FOUND	% R	FOUND	% R	FOUND	% R	FOUND	% R
Arsenic	0.500	20.0	20.0	100	20.2	101	20.1	101	19.3	96.5
Cadmium	0.250	10.0	9.81	98.1	9.87	98.7	9.82	98.2	9.67	96.7
Calcium	100	10000	9360	93.6	10900	109				
Chromium	2.00	20.0	18.7	93.5	18.5	92.5	18.2	91.0	18.8	94.0
Copper	2.00	50.0	48.0	96.0	47.6	95.2	47.0	94.0	45.4	90.8
Iron	50.0	10000	10100	101	10900	109				
Lead	0.500	10.0	9.68	96.8	9.74	97.4	9.75	97.5	9.40	94.0
Magnesium	100	10000	9480	94.8	9700	97.0				
Manganese	1.00	30.0	29.1	97.0	28.4	94.7	28.0	93.3	29.2	97.3
Mercury	0.250	5.00	4.65	93.0	4.75	95.0	5.03	101		
Nickel	1.00	80.0	75.4	94.3	73.9	92.4	72.1	90.1	76.1	95.1
Zinc	2.00	40.0	39.0	97.5	39.1	97.8	38.8	97.0	37.0	92.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

INITIAL & CONTINUING CALIBRATION VERIFICATION

Batch (Page) #: 309

Lab Case: 07483, 07486, 07492, 07494, 07497, 07498, 07499, 07500, 07501, 07502, 07503, 07504
07505, 07526, 07547, 07552, 07557, 07560, 07568, 07591, 07598, 07599, 07600, 07601
07619, 07620, 07621, 07622, 07623, 07624, 07625, 07686, 07695, 07850

Matrix: Aqueous Method: 200.8/200.7 Units: ppb (ug/L)

ANALYTE	INST. MDL	ICV & CCV TRUE	CCV FOUND	CCV % R	CCV FOUND	CCV % R	CCV FOUND	CCV % R	CCV FOUND	CCV % R
Arsenic	0.500	20.0	19.7	98.5	20.0	100	19.9	99.5	20.0	100
Cadmium	0.250	10.0	10.1	101	10.00	100	9.95	99.5	10.0	100
Chromium	2.00	20.0	19.1	95.5	19.3	96.5	19.2	96.0	19.2	96.0
Copper	2.00	50.0	46.4	92.8	46.9	93.8	47.5	95.0	47.1	94.2
Lead	0.500	10.0	9.70	97.0	9.56	95.6	9.76	97.6	9.71	97.1
Manganese	1.00	30.0	29.9	99.7	30.2	101	30.0	100	29.8	99.3
Nickel	1.00	80.0	77.8	97.3	79.3	99.1	77.9	97.4	77.4	96.8
Zinc	2.00	40.0	38.1	95.3	38.8	97.0	38.3	95.8	38.1	95.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

INITIAL & CONTINUING CALIBRATION VERIFICATION

Batch (Page) #: 309

Lab Case: 07483, 07486, 07492, 07494, 07497, 07498, 07499, 07500, 07501, 07502, 07503, 07504
07505, 07526, 07547, 07552, 07557, 07560, 07568, 07591, 07598, 07599, 07600, 07601
07619, 07620, 07621, 07622, 07623, 07624, 07625, 07686, 07695, 07850

Matrix: Aqueous Method: 200.8/200.7 Units: ppb (ug/L)

ANALYTE	INST. MDL	ICV & CCV TRUE	CCV FOUND	CCV % R	CCV FOUND	CCV % R	FOUND	% R	FOUND	% R
Arsenic	0.500	20.0	19.9	99.5	19.8	99.0				
Cadmium	0.250	10.0	10.0	100	9.91	99.1				
Chromium	2.00	20.0	19.2	96.0	18.8	94.0				
Copper	2.00	50.0	45.9	91.8	45.9	91.8				
Lead	0.500	10.0	9.64	96.4	9.72	97.2				
Manganese	1.00	30.0	29.7	99.0	29.3	97.7				
Nickel	1.00	80.0	77.3	96.6	76.4	95.5				
Zinc	2.00	40.0	38.0	95.0	37.8	94.5				

(1) Control Limits: Mercury 80-120; Other Metals 90-110

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

SPIKE SAMPLE RECOVERY

Batch (Page) #: 309

Lab Case: 07486, 07494, 07501, 07547, 07557, 07560, 07619, 07621, 07622, 07624
07483, 07492, 07497, 07498, 07499, 07552, 07591, 07850

Matrix: Aqueous Concentration/Units: ppb (µg/L)

ANALYTE	SSR1	SR1	%R1	SA1	SSR2	SR2	%R2	SA2	CONTROL LIMIT %R
Arsenic	396	ND	99.0	400	434	ND	109	400	75-125
Cadmium	386	ND	96.5	400	461	ND	115	400	75-125
Calcium					35600	27800	97.5	8000	75-125
Chromium	365	ND	91.3	400	407	ND	102	400	75-125
Copper	498	120	94.5	400	420	12.0	102	400	75-125
Iron					8350	ND	104	8000	75-125
Lead	393	7.02	96.5	400	429	ND	107	400	75-125
Magnesium					22700	13300	118	8000	75-125
Manganese	404	27.8	94.1	400	398	ND	99.5	400	75-125
Mercury	9.75	ND	97.5	10.0					75-125
Nickel	369	ND	92.3	400	402	ND	101	400	75-125
Zinc	482	103	94.8	400	450	18.5	108	400	75-125

SSR = Spike Sample Result
SA = Spike Added
SR = Sample Result
%R = Percent Recovery
NC = Non-calculable % R; Sample concentration > 4 x Spike Concentration.

QC Sample 1 07624-001
QC Sample 1 for following samples:
07486-006; 07494-001; 07501-001; 07547-001
07557-001; 07560-001; 07619-002; 07621-001
07622-001; 07624-001

QC Sample 2 07483-001
QC Sample 2 for following samples:
07483-001; 07492-001~003; 07497-002; 07498-002
07499-001; 07552-001; 07591-001; 07850-001

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL
DUPLICATE SAMPLE RECOVERY

Batch (Page) #: 309
Lab Case: 07486, 07494, 07501, 07547, 07557, 07560, 07619, 07621, 07622, 07624
07483, 07492, 07497, 07498, 07499, 07552, 07591, 07850

Matrix: Aqueous Concentration/Units: ppb (µg/L)

ANALYTE	CONTROL LIMIT 1	S1	D1	RPD1	CONTROL LIMIT 2	S2	D2	RPD2
Arsenic	NA	ND	ND	NC	NA	ND	ND	NC
Cadmium	NA	ND	ND	NC	NA	ND	ND	NC
Calcium					20	27800	26500	4.79
Chromium	NA	ND	ND	NC	NA	ND	ND	NC
Copper	20	120	120	0	20	12.0	11.3	6.01
Iron					NA	ND	ND	NC
Lead	20	7.02	6.95	1.00	NA	ND	ND	NC
Magnesium					20	13300	13200	0.755
Manganese	20	27.8	27.9	0.359	NA	ND	ND	NC
Mercury	NA	ND	ND	NC				
Nickel	NA	ND	ND	NC	NA	ND	ND	NC
Zinc	20	103	99.0	3.96	20	18.5	18.0	2.74

S1 = Sample 1
D1 = Duplicate 1
NA = Not Applicable
NC = Non-calculable RPD due to result (s) less than the detection limit.

S2 = Sample 2
D2 = Duplicate 2

QC Sample 1 07624-001
QC Sample 1 for following samples:
07486-006; 07494-001; 07501-001; 07547-001
07557-001; 07560-001; 07619-002; 07621-001
07622-001; 07624-001

QC Sample 2 07483-001
QC Sample 2 for following samples:
07483-001; 07492-001~003; 07497-002; 07498-002
07499-001; 07552-001; 07591-001; 07850-001

0014

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

LABORATORY CONTROL SAMPLE

Batch (Page) #: 309

Lab Case: 07483, 07486, 07492, 07494, 07497, 07498, 07499, 07500, 07501, 07502, 07503, 07504
07505, 07526, 07547, 07552, 07557, 07560, 07568, 07591, 07598, 07599, 07600, 07601
07619, 07620, 07621, 07622, 07623, 07624, 07625, 07686, 07695, 07850

Matrix: Aqueous Unit: ppb (µg/L)

ANALYTE	BSW1			BSW2		
	TRUE	FOUND	%R(1)	TRUE	FOUND	%R(1)
Arsenic	400	392	98.0	400	391	97.8
Cadmium	400	395	98.8	400	405	101
Calcium	8000	8090	101			
Chromium	400	368	92.0	400	354	88.5
Copper	400	385	96.3	400	380	95.0
Iron	8000	8660	108			
Lead	400	381	95.3	400	384	96.0
Magnesium	8000	7950	99.4			
Manganese	400	382	95.5	400	371	92.8
Mercury	10.0	9.70	97.0			
Nickel	400	375	93.8	400	366	91.5
Zinc	400	393	98.3	400	393	98.3

(1) Control Limits % Recovery = 85-115%

BSW1
07486-006; 07494-001; 07501-001; 07547-001
07557-001; 07560-001; 07619-002; 07621-001
07622-001; 07624-001; 07483-001; 07492-001~003
07497-002; 07498-002; 07499-001; 07552-001
07591-001; 07850-001

BSW2
07502-002~003; 07503-002; 07504-002; 07505-001
07526-001; 07568-001; 07598-002; 07599-002
07600-002; 07500-002; 07601-001; 07620-001
07623-001; 07625-001; 07686-001; 07695-001

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

SERIAL DILUTIONS & POST SPIKES 1

Batch (Page) #: 309
Lab Case: 07486, 07494, 07501, 07547, 07557, 07560, 07619, 07621, 07622, 07624

Matrix: Aqueous Concentration/Units: ppb (µg/L)

ANALYTE	SERIAL DILUTION		%	POST SPIKE		%
	SR	SDR	Difference	SPR	SA	Recovery
Arsenic	ND			394	400	98.5
Cadmium	ND			383	400	95.8
Chromium	ND			362	400	90.5
Copper	120			501	400	95.3
Lead	7.02			395	400	97.0
Manganese	27.8			400	400	93.1
Nickel	ND			367	400	91.8
Zinc	103			479	400	94.0

SR = Sample Result
SDR = Sample Dilution Result

SPR = Sample Post Spike Result
SA = Spike Added

Control Limits: (+) or (-) 10% Difference or 75 - 125% Recovery

QC Sample1 : 07624-001
QC Sample 1 for following samples:
07486-006; 07494-001; 07501-001; 07547-001
07557-001; 07560-001; 07619-002; 07621-001
07622-001; 07624-001

E08-07622 INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL

IPC

Batch (Page) #: 309

Lab Case: 07483, 07486, 07492, 07494, 07497, 07498, 07499, 07500, 07501, 07502, 07503, 07504
07505, 07526, 07547, 07552, 07557, 07560, 07568, 07591, 07598, 07599, 07600, 07601
07619, 07620, 07621, 07622, 07623, 07624, 07625, 07686, 07695, 07850

Matrix: Aqueous Unit: ppb (µg/L)

ANALYTE	BSW1		
	TRUE	FOUND	%R(1)
Arsenic	50.0	50.0	100
Cadmium	50.0	50.1	100
Calcium	5000	5090	102
Chromium	50.0	49.0	98.0
Copper	50.0	50.9	102
Iron	5000	5080	102
Lead	50.0	48.8	97.6
Magnesium	5000	5060	101
Manganese	50.0	50.3	101
Mercury	2.50	2.44	97.6
Nickel	50.0	49.7	99.4
Zinc	50.0	49.6	99.2

(1) Control Limits = 95-105%

CHAIN OF CUSTODY

No. 7622
(Lab Use Only)

ENVIRO-SCIENCES, INC.

111 Howard Boulevard, Suite 108
Mount Arlington, NJ 07856
Phone: 973-398-8183
Fax: 973-398-8037

CLIENT: **ST. MARY'S HOSPITAL (PBI)** PROJECT NAME: **R8MM**

DELIVERABLES: **Reduced Data Deliverables**

SEND REPORT TO: **Bob Lawrence** E-Mail: **RLawrenc@Enviro-Sciences.com**

Sample Identification		Sampling Location Point	Sample Date	Sampling Time			Sample Matrix	Sample Type		Analysis Required (code #)	# of Containers
Lab	Field ID				AM	PM		Comp.	Grab		
01	SMP-0708	Process Wastewater	7/2/08	9:45			Aqueous	X		19	1

Note: PVSC Threshold Limits Required

Method of Relinquishment: Drop Off Name of Laboratory: IAL

Relinquished By: (Sign): Received By (Sign): 14:30 Date/Time: 7/3/08 5°C

Relinquished To Lab By: (Sign): Received For Lab By (Sign): Date/Time:

Analysis	Code
Priority Pollutant Metals	01
Petroleum Hydrocarbons	02
Volatile Organics + 15	03
Base Neutrals + 15	04
Acid & Base / Neutrals	05
VO+15 + MTBE / TBA	06
Antimony	07
Arsenic	08
Beryllium	09

Analysis	Code
Cadmium	10
Chromium	11
Copper	12
Lead	13
Mercury	14
Nickel	15
Selenium	16
Silver	17
Thallium	18

Analysis	Code
Zinc	19

Note: Report on CD NOT Required

\\Grove\Shared\Project Files\Hospital Group\Custody Chains\Monthly\1 month chain SMP.doc, 6/26/2008

0013

PROJECT INFORMATION

E 0 8 - 0 7 6 2 2

Case No. E08-07622 **Project** ST. MARY'S HOSPITAL (PBI)-R8MM

Customer	ESI, INC.	**P.O. #**	
Contact	Bob Lawrence	**Received**	7/3/2008 14:30
EMail	rlawrenc@enviro-sciences.com ☑ EMail EDDs	**Verbal Due**	7/18/2008
Phone	(973) 398-8183 **Fax** 1(973) 398-8037	**Report Due**	7/25/2008

Report To

111 Howard Blvd
Suite 108
Mount Arlington, NJ 07856
Attn: Bob Lawrence

Bill To

111 Howard Blvd
Suite 108
Mount Arlington, NJ 07856
Attn: Bob Lawrence

Report Format Reduced

Additional Info ☐ State Form ☐ Field Sampling ☐ Conditional VOA

Lab ID	Client Sample ID	Depth Top / Bottom	Sampling Time	Matrix	Unit	# of Containers
07622-001	SMP-0708	n/a	7/2/2008@09:45	Aqueous	mg/L	1

Sample #	Tests	Status	QA Method
001	Zinc - Zn	Run	200.8

07/03/2008 15:35 by kim - NOTE 1

IF CD APPEARS ON INVOICE, PLEASE DELETE.

Integrated Analytical Labs ~ 273 Franklin Road, Randolph, NJ 07869 ~ (973) 361-4252 ~ Fax (973) 989-5288

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: **E 08** **07622** CLIENT: RJ I

COOLER TEMPERATURE: 2° - 6°C: ✓ (See Chain of Custody)

Comments

COC: (COMPLETE) / INCOMPLETE

KEY

✓ = YES/NA
✗ = NO

✓	Bottles Intact	
✓	no-Missing Bottles	
✓	no-Extra Bottles	
✓	Sufficient Sample Volume	
✓	no-headspace/bubbles in VOs	
✓	Labels intact/correct	
✓	pH Check (exclude VOs)[1]	
✓	Correct bottles/preservative	
✓	Sufficient Holding/Prep Time[1]	
	Sample to be Subcontracted	

[1] All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL [ ] DATE 7/3/08

CORRECTIVE ACTION REQUIRED: **YES** [ ] (SEE BELOW) **NO** [ ]

CLIENT NOTIFIED: YES [ ] Date/ Time: NO [ ]

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL [ ] DATE 7/3

REV 02/05

0820

Laboratory Custody Chronicle

IAL Case No.
E08-07622

Client ESI, INC.

Project ST. MARY'S HOSPITAL (PBI)-R8MM

Received On 7/ 3/2008@14:30

Department: Metals			***Prep. Date***	***Analyst***	***Analysis Date***	***Analyst***
Zinc - Zn	07622-001	Aqueous	7/ 8/08	Lisa	7/10/08	Helge

Review and Approval: R Shadis

Integrated Analytical Labs ~ 273 Franklin Road, Randolph, NJ 07869 ~ (973) 361-4252 ~ Fax (973) 989-5288